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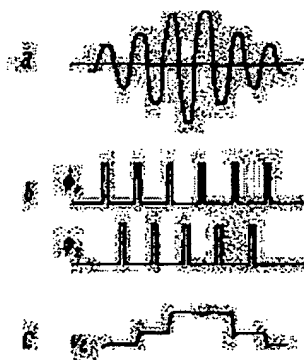
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(54) AMPLITUDE DETECTOR

(57)Abstract:

PURPOSE: To obtain a detector which can work regardless of the DC level of a signal which received an amplitude modulation and is also converted easily into an IC, by using no resistance but using a capacitor of small capacity and a switch.

CONSTITUTION: A signal input terminal 1 is connected to an end of a switch 2, and the other end of the switch 2 is connected to an earth via a capacitor 3 as well as to an end of a switch 4. The other end of the switch 4 is connected to an output terminal 5. Then an amplitude modulating signal shown in a figure (a) is applied as an input V₁, and at the same time double phase clocks ϕ_1 and ϕ_2 shown in a figure (b) are applied as the signals to switch the switches 2 and 4. Thus the terminal voltage VC of the capacitor 3 shows the envelope curve of an amplitude modulating signal, and a wave detecting signal is extracted through the switch 4. It is also possible to form an amplitude wave detecting circuit without using any resistance but using a capacitor of small capacity and switches. As a result, the capacitor can be stored into an IC. Thus an IC can be formed easily.



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